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Synonymy of the Species of STREPOMATIDÆ, a Family of Fluvatile Mollusca inhabiting North America.

Part 4.

BY GEORGE W. TRYON, JR.

The first, second and third parts of this paper* included all the species then known to science, except a peculiar group, of about sixty species of *Goniobasis*, inhabiting principally the Coosa River, Alabama. The species of this group are distinguished from others of the genus by their heavy, bulbous or cylindrical, or pupæform shapes, and their very short spires. I was not satisfied that they belonged to the genus *Goniobasis*, and therefore reserved them for further study.

Mr. Lea has since eliminated from this group principally, his excellent genus *Eurycelon*, which still leaves most of the species, however, in *Goniobasis*. Finding that I am still unable to make a satisfactory separation, I have concluded to finish the synonymy, treating these shells as *Goniobases*.

I avail myself of this opportunity to publish those additions and corrections in the synonymy of the first three parts, which the kind assistance of my friends, and particularly of Mr. Lea, together with my own investigations have enabled me to make.

Including the species of the present paper, my Catalogue now embraces about five hundred species and three hundred synonymy†.

IO, Lea.

1. *I. fluvialis*, Say.

Io fluvialis, H. and A. Adams' Genera i. p. 299. Brot, Malaco Blatt. ii. p. 114, July, 1860.

Io fusiformis, Lea, Chenu, Man. Conchyl. i. f. 1977.

Io fusiformis, Say, H. and A. Adams' Genera i. p. 299.

Io tenebrosa, Lea, H. and A. Adams' Genera i. p. 299. Troschel, Archiv für Naturgesch. ii. p. 130, 1843.

3. *I. spinosa*, Lea.

Io spinosa, Lea, Chenu, Man. de Conchyl. i. f. 1973. Morch, Yoldi, Cat. p. 56. Adams' Genera i. p. 299.

PLEUROCERA, Raf.

1. *P. alveare*, Con.

Melania alveare, Conr., Müller, Synopsis, p. 46, 1836.

Megara alveare, Conr., Adams' Genera i. p. 306.

Megara torquata, Lea, Adams' Genera i. p. 306.

Io pernodosa, Lea, Adams' Genera i. p. 299.

2. *P. Foremani*, Lea.

Gyrotoma Foremani, Lea, ? Adams' Genera i. p. 305.

3. *P. undulatum*, Say.

Melania undulata, Say, Brot, Mal. Blatt. ii. p. 106, July, 1860.

Megara undulata, Say, Adams' Genera i. p. 306.

4. *P. excuratum*, Conrad.

Melania excurata, Conr., Müller, Synopsis, p. 43, 1836.

* Proceedings Acad. Nat. Sciences, Nov., 1863, p. 306; Feb., 1864, p. 24; April, 1864, p. 92.

† The species, published by Mr. Lea in the Proceedings of the Academy for 1864, are not all included in this paper, as the short diagnoses do not allow me to place them in a satisfactory manner. As soon as the full descriptions and figures are published in our Journal, I will indicate their proper places in this list.

6. *P. nobile*, Lea.
Io nobilis, Lea, Adams' Genera i. p. 299.
8. *P. canaliculatum*, Say.
Io canaliculata, Say, Morch, Yoldi, Cat. p. 56.
Ceriphasia canaliculata, Say, Adams' Genera i. p. 297.
Melania conica, Say, Sowerby, Mollusca, Fauna Boreali Americana, iii. p. 316, 1836.
Gyrotoma conica, Say, Adams' Genera i. p. 305.
Melania Sayi, Deshayes, Encyc. Meth. Vers. ii. p. 427, 1830.
9. *P. filum*, Lea.
Elimia filum, Lea, Adams' Genera i. p. 300.
11. *P. olivaceum*, Lea.
This species should follow No. 21.
- 16a. *P. trivittatum*, Lea.*
Synonymy, Part 1st, No. 79.
- 17a. *P. fastigiatum*, Anthony.
Synonymy, Part 1st, No. 44.
28. *P. unciale*, Haldeman.
P. unciale, Hald., Synonymy, Part 1st, No. 67.
P. bicostatum and *rigidum*, Anth., ibid. No. 28.
P. sugillatum, Reeve, ibid. No. 68.
G. oblita, Lea, Synonymy, Part 2, No. 126.
29. *P. subulare*, Lea.
Ceriphasia subularis, Lea, Adams' Genera i. p. 297.
- 29a. *P. intensum*, Anthony.
Melania intensa, Anthony, Reeve, Monog. sp. 371. Brot, List, p. 30.
33. *P. annuliferum*, Conrad.
Melania annulifera, Conr., Müller, Synopsis, p. 44.
Ceriphasia annulifera, Conr., Adams' Genera i. p. 297.
Ceriphasia Ordiana, Lea, ibid. p. 297.
38. *P. elevatum*, Say.
Elimia elevata, Lea, Adams' Genera i. p. 300.
Ceriphasia elongata, Lea, ibid. p. 297, not *Ceriph. elevata*, Say, of Chenu, Man. i. f. 1961.
40. *P. aratum*, Lea.
Ceriphasia exarata, Lea, Adams' Genera i. p. 297.
44. *P. fastigiatum*, Anthony.
Should be No. 17a.
49. *P. pyrenellum*, Conrad.
Melania pyrenella, Conrad, Müller, Synopsis, p. 45.
51. *P. regulare*, Lea.
Ceriphasia regularis, Lea, Adams' Genera i. p. 297.
55. *P. labiatum*, Lea.
- 55a. *P. pallidum*, Lea.†
57. *P. vestitum*, Conrad.‡

* Perhaps = *Thorntonii*.

† After a thorough examination of the specimens of *labiatum* and *pallidum*, I incline to the belief that they are distinct.

‡ *G. spinalis*, Lea, may be identical with this species.

- Melania vestita*, Conrad, Müller, Synopsis, p. 47.
- 57a. *P. lugubre*, Lea.
Melania lugubris, Lea, Philos. Proc. iv. p. 166, August, 1845. Philos. Trans. x. p. 58, t. 9, f. 29. Obs. iv. p. 58. Binney, Check List, No. 164. Brot, List, p. 31.
Goniobasis spurca, Lea, Synopsis, Part 2d, No. 177.
Ceriphasia spurca, Lea, H. and A. Adams' Genera i. p. 297.
- 58a. *P. pictum*, Lea.
Melania picta, Lea, Philos. Proc. ii. p. 82, Oct., 1841. Philos. Trans. ix. p. 19. Obs. iv. p. 19. Wheatley, Cat. Shells, U. S. p. 26. Binney, Check List, No. 205. Reeve, Monog. Melania, sp. 290.
Melania picturata, Reeve,* Errata to Monog. Melania. Brot, List, p. 38.
- 63a. *P. Ocoécense*, Lea.
Goniobasis Ocoécensis, Lea, Synonymy, Part 2d, No. 181.
67. *P. unciale*, Haldeman.
 Synonymy, Part 1st, = No. 28.
68. *P. sugillatum*, Reeve,
 Synonymy, Part 1st, = No. 28.
76. *P. curvatum*, Lea.
Gyrotoma curvata, Say, ? Adams' Genera i. p. 305.
79. *P. trivittatum*, Lea.
 Synonymy, Part 1st, = No. 16a.
83. *P. opaca*, Anthony.
G. opaca, *lostoma* and *nigrostoma*, Anthony, Synonymy, Part 2d, No. 119.
P. Tennesseense, Lea, Synonymy, Part 1st, No. 83.
- ANGITREMA, Haldeman.
1. *A. geniculata*, Haldeman.
Lithasia genicula, Lea, Adams' Genera i. p. 308.
2. *A. salebrosa*, Conrad.
Melania salebrosa, Conrad, Müller, Synopsis, p. 44.
Lithasia salebrosa, Conrad, Adams' Genera i. p. 308.
5. *A. Jayana*, Lea.
Io Jayana, Lea, Brot, Mal. Blatt. ii. p. 115, July, 1860.
Io robulina, Anthony, Chenu, Manuel de Conchyl. i. f. 1976. Adams' Genera i. p. 299.
7. *A. armigera*, Say.
Io armigera, Say, Adams' Genera i. p. 299.
8. *A. Duttoniana*, Lea.
Io Duttoniana, Lea, Chenu, Man. de Conchyl. i. f. 1974. Adams' Genera i. p. 299.
9. *A. stygia*, Say.
Io tuberculata, Lea, Adams' Genera i. p. 299.
11. *A. lima*, Conrad.
Melania lima, Contr. Müller, Synopsis, p. 46.
Megara lima, Contr., Adams' Genera i. p. 306.
12. *A. verrucosa*, Rafinesque.
Potadoma depygis, Say, Chenu, Manuel de Conchyl. i. f. 1970.
Lithasia semigranulosa, Deshayes, Adams' Genera i. p. 308.

* As a *Pleurocera*, the name of *picta* is not preoccupied.

LITHASIA, Haldeman.

1. *L. fuliginosa*, Lea.
Leptoxis fuliginosa, Lea, Adams' Genera i. p. 307.
2. *L. Florentiana*, Lea.
Io Florentiana, Lea, H. and A. Adams' Genera i. p. 299.
9. *L. nucleola*, Anthony.
L. obliqua, Anthony, Synonymy, Part 1st, No. 14.
11. *L. obovata*, Say.
Lithasia obovata, Say, Adams' Genera i. p. 308.
Leptoxis Hildrethiana, Lea, Adams' Genera i. p. 307.
14. *L. obliqua*, Anthony.
Synonymy, Part 1st, = *L. nucleola*, Anthony, No. 9.

STREPHOBASIS, Lea.

1. *S. curta*, Haldeman.
Megara solida, Lea, Adams' Genera i. p. 306.
2. *S. pumila*, Lea.
Megara pumila, Lea, Adams' Genera i. p. 306.
8. *S. bitaeniata*, Conrad.
Melania bitaeniata, Conrad, Müller, Synopsis, p. 45.

GONIOBASIS, Lea.

2. *G. gratiosa*, Lea.
- 2a. *G. lachryma*, Anthony.
Both=EURYCÆLON.
3. *G. gibberosa*, Lea.
=EURYCÆLON.
4. *G. nubila*, Lea.
=EURYCÆLON.
6. *G. Hydeii*, Conrad.
Melania Hydeii, Conrad, Müller, Synopsis, p. 44.
8. *G. caelatura*, Conrad.
- 8a. *G. Stewardsoniana*, Lea.*
- 8b. *G. flavescens*, Lea.†
Goniobasis flavescens, Lea, Proc. Acad. Nat. Sciences, p. 271, 1862—Journal Acad. Nat. Sci., v. pt. 3, p. 339, t. 38, f. 202, March, 1863. Obs. ix. p. 161.
10. *G. catenaria*, Say.
Elimia catenaria, Lea, Adams' Genera i. p. 300.
11. *G. catenoides*, Lea.
Elimia catenoides, Lea, Adams' Genera i. p. 300.
14. *G. Boykiniana*, Lea.
Elimia Boykiniana, Lea, Adams' Genera i. p. 300.
Juga Troostiana, Lea, Chenu, Man. de Conchyl. i. f. 2017.
22. *G. carinifera*, Lamarck.
Elimia bella, Conrad, Adams' Genera i. p. 300.

*Differs from *G. caelatura* in color, being dark green. It is also a more inflated species, with shorter spire.

†Nearly allied to *caelatura*, but is narrower, more cylindrical and lighter in color.

- 22a. *G. abbreviata*, Anthony.
Melania abbreviata, Anth., Bost. Proc., iii. p. 360, Dec., 1850. Binney, Check List, No. 433. Reeve, Monog. Melania, sp. 424.
Melania elegantula, Anthony, Ann. N. Y. Lyc., vi. p. 103, t. 3, f. 2, Mar., 1854. Binney, Check List, No. 96. Brot. List, p. 32. Reeve, Monog. Melania sp. 346.
Melania coronilla, Anth., Ann. Lyc., N. H., New York, vi. p. 126, t. 3, f. 27, Mar., 1854. Binney, Check List, No. 69. Brot. List, p. 32, Reeve, Monog. Mel., sp. 418.
Melania chalybæa, Anth., Brot. List, p. 37.
- 22b. *G. vesicula*, Lea.
 Synonymy, Part. 2, No. 41.
25. *G. substricta*, Haldeman.
 Synonymy, Part 2=No. 31. *G. obtusa*, Lea.
28. *G. carinocostata*, Lea.
Elimia carinocostata, Lea, Adams' Genera, i. p. 300.
- 28a. *G. strenua*, Lea.
G. Leidyana, Lea.
G. carinocostata, Lea, Synonymy, Part 2.
- 28b. *G. perstriata*, Lea.
 Synonymy, Part 2, No. 73.
29. *G. Lecontiana*, Lea.
Melasma Lecontiana, Lea, Adams' Genera i. p. 300.
30. *G. cadus*, Lea.
 Synonymy, Part 2=*G. obtusa*, Lea, No. 31.
31. *G. obtusa*, Lea.
G. substricta, Haldeman, Synonymy, Part 2, No. 25.
G. cadus, Lea, Synonymy, Part 2, No. 30.
34. *G. Christyi*, Lea, is a Synonym of No. 37.
37. *G. interrupta*, Haldeman.
G. Christyi, Lea. *G. instabilis*, Lea, Synonymy, Part 2, No. 34.
G. ornatella, Lea, is a Synonym, of No. 39.
39. *G. formosa*, Conrad.
G. ornatella, Lea, Synonymy, Part 2, No. 37.
41. *G. vesicula*, Lea.
 See No. 22, b.
43. *G. laqueta*, Say.
Melasma laqueata, Say, Adams' Genera i. p. 300.
47. *G. gracilis*, Lea.
Potadoma gracilis, Lea, H. and A. Adams' Genera i. p. 299.
53. *G. blanda*, Lea.
Melasma blanda, Lea, Adams' Genera i. p. 300.
54. *G. nitens*, Lea.
Melasma nitens, Lea, Adams' Genera i. p. 300.
55. *G. mutata*, Brot.*
59. *G. Curreyana*, Lea.
Melasma Curreyana, Lea, Adams' Genera i. p. 300.

*Much resembles *G. difficilis*, Lea, No. 81.

61. *G. Deshayesiana*, Lea.
Melasma plicatula, Lea, Adams' Genera i. p. 300.
Melasma Deshayesiana, Lea, Adams' Genera i. p. 300.
- 69a. *G. Lindsleyi*,* Lea.
 Syn. of *dislocata*, Rav., Part 2, Synonymy, No. 69.
72. *G. nassula*, Conrad.
Melania nassula, Conr., Müller, Synopsis, p. 46.
G. Edgariana, Lea, Synonymy, Part 2, No. 77.
Melasma Edgariana, Lea, Adams' Genera i. p. 300.
75. *G. costulata*, Lea.
Melasma costulata, Lea, Adams' Genera i. p. 300.
77. *G. Edgariana*, Lea.
 Vide, No. 72.
78. *G. caliginosa*, Lea.
Elima caliginosa, Lea, Adams' Genera i. p. 300.
79. *G. nodulosa*, Lea.
Elimia nodulosa, Lea, Adams' Genera, No. 300.
80. *G. glauca*, Anthony.
 = *G. athleta*, Anthony, No. 86.
84. *G. cancellata*, Say.
Elimia cancellata, Say, Adams' Genera i. No. 84.
85. *G. circincta*, Lea.
Juga circincta, Lea, Adams' Genera i. p. 294.
86. *G. athleta*, Anthony.
G. glauca, Anthony, Synonymy, Part 2, No. 80.
88. *G. striatula*, Lea.
Juga striata, Lea, Adams' Genera i. p. 304.
91. *G. crebri-costata*, Lea.
Melasma crebri-costata, Lea, Adams' Genera i. p. 300.
92. *G. comma*, Conrad.
Melania comma, Conr., Müller, Synopsis, p. 45.
Melasma comma, Conr., Adams' Genera i. p. 300.
93. *G. acuta*, Lea.
Ceriphasia acuta, Lea, Adams' Genera i. p. 297.
94. *G. subcylindracea*, Lea.
Potadoma subcylindracea, Lea, Adams' Genera i. p. 299.
96. *G. concinna*, Lea.
Melasma concinna, Lea, Adams' Genera i. p. 300.
103. *G. plicifera*, Lea.
Melania plicifera, Lea, Troschel, Archiv für Naturgesch. ii. p. 227.
Melasma plicifera, Adams' Genera i. p. 300.
104. *G. silicula*, Gould.
Juga silicula, Gould, Adams' Genera i. p. 304.
108. *G. trochiformis*, Conrad.
Melania trochiformis, Conr., Müller, Synopsis, p. 47.

* The aperture is differently shaped from *dislocata*. The plicæ are also more crowded, and decussated by one or two lines under the sutures.

- 111a. *G. expansa*, Lea.*
 118. *G. plebeius*, Anthony.
 =*G. sordida*, Lea, No. 186.
 119. *G. opaca*, Anthony.
 =*Pleurocera opaca*, Anthony, No. 83.
 123. *G. modesta*, Lea.†
 124. *G. pagodiformis*, Anthony.
 =*G. acutocarinata*, Lea, No. 127.
 125. *G. Gerhardtii*, Lea.‡
 126. *G. oblita*, Lea.
 =*Pleurocera unciale*, Hald., Synonymy, Part 1, No. 28.
 127. *G. acutocarinata*, Lea.
 G. pagodiformis, Anthony. *G. torulosa*, Anth., No. 124.
 Elimia acutocarinata, Lea, Adams' Genera i. p. 300.
 129. *G. Catawbaea*, Haldeman.
 Goniobasis Catawbaea, Hald., Amer. Jour. Conch. vol. 1, No. 1,
 Feb. 25, 1865.
 132. *G. symmetrica*, Haldeman.
 Ceriphasia symmetrica, Hald. Adams' Genera i. p. 297.
 138. *G. congesta*, Conrad.
 Melania congesta, Conr., Müller, Synopsis, p. 43.
 139. *G. auriculæformis*, Lea.
 Megara auriculæformis, Lea, Adams' Genera i. p. 306.
 140. *G. Nickliniana*, Lea.
 Leptoxis Nickliniana, Lea, Adams' Genera i. p. 307.
 143. *G. ebum*, Lea.§
 Nitocris ebena, Lea, Adams' Genera i. p. 308.
 Melania brunnea, Anth.=*G. sordida*, Lea, No. 186.
 148. *G. graminea*, Haldeman.
 Goniobasis graminea, Hald., American Journ. Conch. i. No. 1. Feb. 25, 1865.
 150. *G. Vanuxemii*, Lea.
 Changed to *G. Prestoniana*, Proc. Acad., 1864, p. 3, *Vanuxemii* being
 preoccupied.
 =*G. simplex*, Say, No. 157.
 153. *G. abrupta*, Lea.
 Leptoxis abrupta, Lea, Adams' Genera i. p. 307.
 154. *G. depygis*, Say.
 Potadoma depygis, Say, Adams' Genera i. p. 298.
 155. *G. livescens*, Menke.
 Potadoma Niagarensis, Lea, Adams' Genera i. p. 299.
 157. *G. simplex*, Say.
 G. subsolida, Lea, No. 186, excl. synonyms.

*Very closely allied to, or perhaps=*G. Whitei*, No. 111.

†Perhaps=*Pleurocera lugubris*, Lea.

‡This is probably the same as *G. semigradata*, No. 27.

§Mr. Lea agrees with me in considering this species distinct from *iosoma*, Anth.; and also in making *brunnea* a synonym of *sordida* instead of *ebenum*.

- G. Vanuxemii*, Lea, No. 150.
Pachycheilus simplex, Say, Adams' Genera i. p. 298.
Potadoma Warderiana, Lea, Adams' Genera i. p. 299, Chenu, Manuel, i. f. 1972.
158. *G. Potosiensis*, Lea.
Elimia Potosiensis, Lea, H. and A. Adams' Genera i. p. 300.
- 160a. *G. virens*, Anthony.*
 Syn. of *G. Saffordi*. Synonymy, Part 2d, No. 160.
167. *G. cinerea*, Lea.†
170. *G. translucens*, Anthony.
Goniobasis translucens, Anthony, Am. Journ. Conch. i., Feb. 25, 1865.
171. *G. ovoidea*, Lea.
Potadoma ovoideus, Lea, Adams' Genera i. p. 299.
173. *G. quadricincta*, Lea.
Goniobasis quadricincta, Lea, Proc. Acad. Nat. Sci., Apr. 1864, p. 112.
177. *G. spurca*, Lea.
 = *Pleurocera*, No. 57a.
181. *G. Ocoënsis*, Lea.
Potadoma Ocoënsis, Lea, Adams' Genera i. p. 299. = *Pleurocera*, No. 63a.
184. *G. Estabrookii*, Lea.
 = *G. dubiosa*.
186. *G. subsolida*, Lea.
 = *G. simplex*, Say, No. 157.
Potadoma subsolida, Lea, H. and A. Adams' Genera i. p. 299.
- 186a. *G. sordida*, Lea.
Potadoma sordida, Lea, H. and A. Adams' Genera i. p. 299.
G. plebeia, Anth., Synonymy, Part 2d, No. 118.
G. brunnea, Anth., Synonymy, Part 2d, No. 143.
187. *G. clavaeformis*, Lea.
Melasma clavaeformis, Lea, H. and A. Adams' Genera i. p. 300.
191. *G. adusta*, Anthony.
G. Cumberlandiensis, Lea, Synonymy, Part 2d, No. 189.
G. funebris, Anthony, Synonymy, Part 2d, No. 190.
193. *G. dubiosa*, Lea,
G. Estabrookii, Lea, Synonymy, Part 2d, No. 184.
194. *G. laevigata*, Lea.
Potadoma laevigata, Lea, H. and A. Adams' Genera i. p. 299.
195. *G. interlineata*, Anthony.
Goniobasis interlineata, Anthony, Am. Jour. Conch. vol. i., Feb. 25, 1865.
196. *G. Ohiensis*, Lea.‡
197. *G. brevispira*, Anthony.
Melasma brevispira, Anth., Adams' Genera i. p. 300.

* Appears to be distinct from *G. Saffordi*. The shell is less solid, the aperture is not exactly of the same form, and the color is lighter and more brilliant.

† Most likely the locality given for this species is incorrect. It is probably identical with *pulchella*, Anthony.

‡ Probably = *G. semicarinata*, Say, No. 193.

198. *G. semicarinata*, Say.
Juga exilis, Hald., Adams' Genera i. p. 304.
Ceriphasia Kirtlandiana, Adams' Genera i. p. 297.
Potadoma inornatus, Adams' Genera i. p. 299.
199. *G. Haldemani*, Tryon.
Goniobasis Haldemani, Tryon, Am. Journ. Conch. i., Feb. 25, 1865.
203. *G. Alexandrensis*, Lea.*
Ceriphasia Alexandrensis, Lea, Adams' Genera i. p. 297.
204. *G. Haleiana*, Lea.
Ceriphasia Haleiana, Lea, Adams' Genera i. p. 297.
208. *G. proxima*, Say.
Juga proxima, Say, Adams' Genera i. p. 304.
- 208a. *G. rufescens*, Lea.†
Potadoma rufescens, Lea, Adams' Genera i. p. 299.
209. *G. Virginica*, Gmel.
Buccinum Virginica, Gmel. Syst. Nat. p. 3505. Schröter, Einleit. i. p. 414, 1783. Martini, Berlin Mag. iv. p. 348, t. 10, f. 48. Schreibers, Einleit. Conchyl. t. 113, f. 7.
Melania Virginica, Say, Villa., Cat. Syst. p. 36, 1841.
Io Virginica, Say, Moreh, Yoldi Cat. p. 56.
Ceriphasia Virginica, Gmel., Adams' Genera i. p. 297.
Juga Virginica, Say, Adams' Genera i. p. 304.
Juga multilineata, Say, Adams' Genera i. p. 304.
210. *G. Sulcosa*, Lea.
Ceriphasia sulcosa, Lea, Adams' Genera i. p. 297.
211. *G. Buddii*, Lea.
Juga Buddii, Say, H. and A. Adams' Genera i. p. 304.
212. *G. Troostiana*, Lea.
Melania Troostiana, Lea, Troschel, Archiv für Naturgesch. ii. p. 227.
Juga Troostiana, Lea, Adams' Genera i. p. 304.
- J. Heavy, pupæform or cylindrical species.*
217. *G. cylindracea*, Conrad.
Melania cylindracea, Con., New Fresh-Water Shells, p. 55, t. 8, f. 10, 1834.
Müller, Synopsis, p. 47, 1836. Binney, Check List, No. 84.
Melania cylindrica, Con., Wheatley, Cat. Shells, U. S., p. 25. Reeve, Monog. Melania, sp. 311. Brot, List, p. 32.
Melania oppugnata, Lea, Philos. Trans. x. p. 300, t. 30, f. 9. Observations, v. p. 56. Binney, Check List, No. 190.
218. *G. pupoidea*, Anthony.‡
Melania pupoidea, Anthony, Ann. Lyc. Nat. Hist. N. Y., vi. p. 104, t. 3, f. 3, April, 1854. Brot, List, p. 33. Binney, Check List, No. 224. Reeve, Monog. Melania, sp. 249.
Melania propinqua, Lea, Proc. Acad. Nat. Sci., p. 119, 1861.
Goniobasis propinqua, Lea, Journ. Acad. Nat. Sci., v. pt. 3, p. 234, t. 34, f. 29, March, 1863. Obs. ix. p. 56.

* May be a *Pleurocera*.

† This is a longer and narrower species than *G. proxima*, the color is also darker.

‡ Without the large series of specimens before me, I should have acquiesced in the institution of *propinqua* as a distinct species; but I find every grade of form between the two. The shorter forms approach closely to *olivula*, Con., with which they have been confounded. They are distinguished by difference in color, and principally of texture, *olivula* being much heavier.

219. *G. lita*, Lea.*
Melania lita, Lea, Proc. Acad. Nat. Sciences, 1861, p. 121.
Goniobasis lita, Lea, Journ. Acad. Nat. Sci., v. pt. 3, p. 239, t. 34, f. 40,
 March, 1863. Obs. ix. p. 61.
220. *G. fallax*, Lea.
Melania fallax, Lea, Proc. Acad. Nat. Sciences, 1861, p. 120.
Goniobasis fallax, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 231, t. 34, f. 24,
 March, 1863. Obs. ix. p. 53.
221. *G. inosculata*, Lea.†
Goniobasis inosculata, Lea, Proc. Acad. Nat. Sci. p. 263, 1862. Journ. Acad.
 Nat. Sci. v. pt. 3, p. 296, t. 37, f. 126, March, 1863. Obs. ix. p. 118.
222. *G. Alabamensis*, Lea.
Melania Alabamensis, Lea, Proc. Acad. Nat. Sci. 1861, p. 121.
Goniobasis Alabamensis, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 232, t. 34, f.
 26, March, 1863. Obs. ix. p. 54.
223. *G. rara*, Lea.
Melania rara, Lea, Proc. Acad. Nat. Sci. p. 121, 1861.
Goniobasis rara, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 220, t. 34, f. 3,
 March, 1863. Obs. ix. p. 42.
224. *G. punicea*, Lea.‡
Melania punicea, Lea, Proc. Acad. Nat. Sci., p. 119, 1861.
Goniobasis punicea, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 232, t. 34, f. 27,
 March, 1863. Obs. ix. p. 54.
225. *G. pudica*, Lea.
Melania pudica, Lea, Proc. Acad. Nat. Sci. v. pt. 3, p. 222, t. 34, f. 7, Mar.
 1863. Obs. ix.
226. *G. fabalis*, Lea.
Goniobasis fabalis, Lea, Proc. Acad. Nat. Sci. p. 266, 1862. Journ. Acad.
 Nat. Sci. v. pt. 3, p. 311, t. 37, f. 154, March, 1863. Obs. ix. p. 133.
227. *G. Shelbyensis*, Lea.§
Melania Shelbyensis, Lea, Proc. Acad. Nat. Sci. p. 121, 1861.
Goniobasis Shelbyensis, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 228, t. 34, f.
 18, March, 1863. Obs. ix. p. 50.
228. *G. fumea*, Lea.
Melania fumea, Lea, Proc. Acad. Nat. Sci. 1861, p. 123.
Goniobasis fumea, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 222, t. 34, f. 6,
 March, 1863. Obs. ix. p. 44.
229. *G. æqua*, Lea.
Melania æqua, Lea, Proc. Acad. Nat. Sci. 1861, p. 122.
Goniobasis æqua, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 240, t. 34, f. 41,
 March, 1863. Obs. ix. p. 62.
230. *G. solidula*, Lea.
Melania solidula, Lea, Proc. Acad. Nat. Sci. 1861, p. 121.
Goniobasis solidula, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 230, t. 34, f. 23.
 Obs. ix. p. 52.

*I doubt whether this is distinct from *G. Haysiana*. In all the specimens I have examined, the aperture is white within, instead of purple as described by Mr. Lea.

†The whorls are more convex and brighter in color than *G. fallax*. This species is constantly ornamented by four dark bands.

‡Very closely allied to *pudica*, if not identical with that species.

§Differs from *pudica* in the form of the aperture, the whorls are also flatter.

231. *G. olivula*, Conrad.
Melania olivula, Con., Am. Journ. Science, 1st Series, xxv. p. 342, t. 1, f. 13, Jan., 1834. Müller, Synopsis, p. 42, 1836. Wheatley, Cat. Shells, U. S., 26. DeKay, Moll. New York, p. 98. Jay, Cat. Shells, 4th Edit. p. 274. Reeve, Monog. *Melania*, sp. 455.* Binney, Check List, No. 188. Brot, List, p. 33. Hanley, Conch. Miscellany, t. 1, f. 2.
Megara olivula, Con., Chenu, Manuel, i. f. 2027. Adams' Genera i. p. 306.
Melania olivata, Con., Jay, Cat. 3d Edit. p. 45. Catlow, Conch. Nomencl. p. 188.
Melania propria, Lea, Proc. Acad. Nat. Sciences, 1861, p. 123.†
Goniobasis lepida, Lea, Journ. Acad. Nat. Sciences, v. pt. 3, p. 227, t. 34, f. 17, March, 1863. Obs. ix. p. 49.
232. *G. fascinans*, Lea.
Melania fascinans, Lea, Proc. Acad. Nat. Sciences, p. 119, 1861.
Goniobasis fascinans, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 229, t. 34, f. 20, March, 1863. Obs. ix. p. 51.
233. *G. Showalterii*, Lea.
Melania Showalterii, Lea, Proc. Acad. Nat. Sciences, 1861, p. 120.
Goniobasis Showalterii, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 220, t. 34, f. 4. Obs. ix. p. 42.
234. *G. clausa*, Lea.
Melania clausa, Lea, Proc. Acad. Nat. Sciences, 1861, p. 120.
Goniobasis clausa, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 231, t. 34, f. 25, March, 1863. Obs. ix. p. 53.
235. *G. crepera*, Lea.
Melania crepera, Lea, Proc. Acad. Nat. Sci. 1861, p. 123.
Goniobasis crepera, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 240, t. 34, f. 42, March, 1863. Obs. ix. p. 62.
236. *G. abscida*, Anthony.
Melania abscida, Anthony, Proc. Acad. Nat. Sciences, 1860, p. 56. Binney, Check List, No. 435. Brot, List, p. 32. Reeve, Monog. *Melania*, sp. 395.
237. *G. Vanuxemiana*, Lea.
Melania Vanuxemiana, Lea, Proc. Philos. Soc. ii. p. 242, Dec., 1842. Philos. Trans. ix. p. 25. Obs. ix. p. 25. Reeve, Monog. *Melania*, sp. 453. Brot, List, p. 33.
Melania Vanuxemensis, Lea, Wheatley, Cat. Shells, U. S., p. 27. Binney, Check List, No. 283.
Megara Vanuxemiana, Lea, Adams' Genera i. p. 306.
238. *G. Coosaensis*, Lea.‡
Melania Coosaensis, Lea, Proc. Acad. Nat. Sci. 1861, p. 118.
Goniobasis Coosaensis, Lea, Journ. Acad. Nat. Sciences, v. pt. 3, p. 234, t. 34, f. 30, March, 1863. Obs. ix. p. 56.
238. *G. rubicunda*, Lea.
Melania rubicunda, Lea, Proc. Acad. Nat. Sciences, 1861, p. 118.
Goniobasis rubicunda, Lea, Journ. Acad. Nat. Sci., v. pt. 3, p. 235 t. 34, f. 32, March, 1863. Obs. ix. p. 57.
240. *G. Haysiana*, Lea.
Melania Haysiana, Lea, Philos. Proc. ii, p. 242, Dec., 1842. Philos. Trans.

* Reeve figures for this shell also sp. 309, but the figure does not represent the species.

† Preoccupied. *Showalterii* and *fascinans* are also probably synonyms of *olivula*.

‡ Differs from *G. Haysiana* in the form of the aperture.

- ix. p. 25. Obs. iv. p. 25. Wheatley, Cat. Shells, U. S., p. 25. Jay, Cat. Shells, 4th Edit. p. 273. Binney, Check List, No. 137. Brot, List, p. 32. Brot, Mal. Blatt. ii. p. 108, July, 1860.* Reeve, Monog. Melania, sp. 310. Hanley, Conch. Miscel. Melania, t. 1, f. 6.
Megara Haysiana, Lea, Chenu, Manuel, i. f. 1981. Adams' Genera i. p. 306.
241. *G. arctata*, Lea.
Melania arctata, Lea, Philos. Proc. iv. p. 166. Philos. Trans. x. p. 64, t. 9, f. 46. Obs. iv. p. 64. Binney, Check List, No. 20. Brot, List, p. 32.
Megara arctata, Lea, Chenu, Manuel, i. f. 2024. Adams' Genera i. f. 306.
242. *G. ampla*, Anthony.
Melania ampla, Anthony, Ann. N. Y. Lyceum, vi. p. 93, t. 2, f. 12, 1854. Binney, Check List, No. 13. Brot, List, p. 39. Reeve, Monog. Melania, sp. 312.
Melania Hartmaniana, Lea, Proc. Acad. Nat. Sciences, 1861.
Goniobasis Hartmanii, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 218, t. 34, f. 1, 1863. Obs. ix. p. 40.
243. *G. mellea*, Lea.
Melania mellea, Lea, Proc. Acad. Nat. Sciences, 1861, p. 120.
Goniobasis mellea, Lea, Journ. Acad. Nat. Sci. v. pt. 3, p. 224, t. 34, f. 10, 1863. Obs. ix. p. 46.
244. *G. ambusta*, Anthony.
Melania ambusta, Anthony, Ann. Lyc. Nat. Hist. vi. p. 94, t. 2, f. 13, 1854. Binney, Check List, No. 12. Brot, List, p. 39. Reeve, Monog. Melania, sp. 352.
245. *G. laeta*, Jay.
Melania laeta, Jay, Cat. Shells, 3d Edit. p. 122, t. 7, f. 11, 1839. Jay, Cat. Shells, 4th Edit. p. 274. Wheatley, Cat. Shells, U. S., p. 26. Binney, Check List, No. 156. Catlow, Conch. Nomenc. p. 187. Brot, List, p. 32.
Melania robusta, Lea, Philos. Proc. ii. p. 83, October, 1841. Philos. Trans. ix. p. 19. Obs. iv. p. 19. Wheatley, Cat. Shells, U. S., p. 26. Binney, Check List, No. 231.
Melatoma Buddii, Lea, † Reeve, Monog. Melatoma, sp. 3.
Melania tæniolata, † Anthony, Proc. Acad. Nat. Sciences, 1860, p. 59. Binney, Check List, No. 263. Brot, List, p. 31. Reeve, Monog. Melania, sp. 392.
246. *G. harpa*, Lea.
Melania harpa, Lea, Philos. Proc. iv. p. 166, August, 1845. Philos. Trans. x. p. 64, t. 9, f. 45. Obs. iv. p. 64. Binney, Check List, No. 135. Brot, List, p. 32. Reeve, Monog. Melania, sp. 313, 314.
Megara harpa, Lea, Adams' Genera i. p. 306.
Melania textilosa, Anthony, § Ann. Lyc. Nat. Hist. vi. p. 101, t. 2, f. 20, 1854. Binney, Check List, No. 270. Brot, List, p. 40. Reeve, Monog. Melania, sp. 391.
247. *G. oliva*, Lea. ||

* Dr. Brot considers *arctata*, *robusta*, *brevis* and *basalis* synonyms.

† It is curious that Mr. Reeve has figured and described this shell for the *Schizostoma* (*Melatoma*), *Buddii*, Lea.

‡ Half grown shell. It presents a very different appearance from the adult.

§ Half grown shell.

|| This shell is narrower than *G. laeta*, resembling *harpa* in form; but the aperture is wider and more rounded below. It is very closely allied to *G. excavata*,—which is a smooth species, however.

- Melania oliva*, Lea, Philos. Proc. ii. p. 242, 1842. Philos. Trans., ix. p. 27. Obs. iv. p. 127. Wheatley, Cat. Shells U. S., p. 26. Binney, Check List, No. 187. Brot, List, p. 33.
Megara oliva, Lea, Adams' Genera i. p. 306.
248. *G. proteus*, Lea.
Melania proteus, Lea, Philos. Proc. iv. p. 166, 1845. Philos. Trans., x. p. 57, t. 9, f. 28. Obs. iv. p. 57. Binney, Check List, No. 219. Brot, List, p. 33.
Juga proteus, Lea, Adams' Genera i. p. 304.
249. *G. grisea*, Anthony.
Melania grisea, Anthony, Proc. Acad. Nat. Sciences, 1860, p. 61. Reeve, Monog. *Melania*, sp. 390. Brot, List, p. 32.
250. *G. culta*, Lea.
Melania culta, Lea, Proc. Acad. Nat. Sciences, p. 121, 1861.
Goniobasis culta, Lea, Jour. Acad. Nat. Sci., v. p. 13, p. 237, t. 34, f. 36. Mar., 1863. Obs. ix. p. 59.
Melania suavis,* Lea, Proc. Acad. Nat. Sci., p. 169, 1861.
Goniobasis suavis, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 228 t. 34, f. 19. Mar., 1863. Obs. ix. p. 50.
251. *G. luteola*, Lea.
Melania luteola, Lea, Proc. Acad. Nat. Sci., p. 119, 1861.
Goniobasis luteola, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 230, t. 34, f. 22, Mar., 1863. Obs. ix. p. 52.
Melania straminea,† Lea, Proc. Acad. Nat. Sci., 1861, p. 121.
Goniobasis straminea, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 227, t. 34, f. 16, Mar., 1863. Obs. ix. p. 49.
252. *G. grvida*, Anthony.
Melania grvida, Anth., Proc. Acad. Nat. Sci. p. 59, Feb., 1860. Reeve, Monog. *Melania*. Brot, List.
253. *G. germana*, Anthony.
Melania germana, Anth., Proc. Acad. Nat. Sci. p. 61, Feb., 1860. Binney, Check List, No. 120. Brot, List, p. 40. Reeve, Monog. *Melania*, sp. 383.
254. *G. variata*, Lea.
Melania variata, Lea, Proc. Acad. Nat. Sci. p. 119, 1861.
Goniobasis variata, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 224, t. 34, f. 11, March, 1863. Obs. ix. p. 46.
255. *G. ovalis*, Lea.
Melania ovalis, Lea, Philos. Proc. ii. p. 242, Dec. 1842. Philos. Trans. ix. p. 25. Obs. ix. p. 25. Wheatley, Cat. Shells U. S. p. 26. Binney, Check List, No. 192. Reeve, Monog. *Melania*, sp. 448 and sp. 309.‡
Megara ovalis, Lea, Adams' Genera i. p. 306.
Melania copiosa, Lea, Proc. Acad. Nat. Sci. p. 122, 1861.
Goniobasis copiosa, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 239, t. 34, f. 39. Obs. ix. p. 61.
Melania orbicula, Lea, Proc. Acad. Nat. Sci. p. 118, 1861.
Goniobasis orbicula, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 238, t. 34, f. 37, March, 1863. Obs. ix. p. 60.
256. *G. virgulata*, Lea.
Melania virgulata,† Lea, Proc. Acad. Nat. Sci. p. 119, 1861.

* Young shell.

† Young shell.

‡ Figured as *olivula*, Conr., but name corrected in Errata.

- Goniobasis virgulata*, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 223, t. 34, f. 9, March, 1863. Obs. ix. p. 45.
Melania glandaria,* Lea, Proc. Acad. Nat. Sci. p. 120, 1861.
Goniobasis glandaria, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 226, t. 34, f. 14, March, 1863. Obs. ix. p. 48.
257. *G. clara*, Anthony.
Melania clara, Anth., Ann. N. Y. Lyc. vi. p. 119, t. 3, f. 19, March, 1854.
 Binney, Check List, No. 55. Brot, List, p. 32.
258. *G. inflata*, Haldeman.†
Melania inflata, Hald., Cover of No. 3, Monog. Limniades, March, 1841.
 Binney, Check List, No. 146. Brot, List, p. 40. Reeve, Monog. Melania, sp. 410.
259. *G. fusiformis*, Lea.‡
Melania fusiformis, Lea, Philos. Proc. ii. p. 12, Feb., 1841. Philos. Trans., viii. p. 167, t. 5, f. 9. Obs. iii. p. 5. DeKay, Moll. N. Y., p. 93. Troost. Cat. Shells Tenn. Wheatley, Cat. Shells U. S., p. 25. Binney, Check List, No. 117. Catlow, Conch. Nomencl., p. 186. Brot, List, p. 40.
260. *G. bellula*, Lea.
Melania bellula, Lea, Proc. Acad. Nat. Sci., p. 122, 1861.
Goniobasis bellula, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 237, t. 34, f. 35, Mar., 1863. Obs. ix. p. 59.
261. *G. calculoides*, Lea.
Melania calculoides, Lea, Proc. Acad. Nat. Sci., p. 118, 1861.
Goniobasis calculoides, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 238, t. 34, f. 38, Mar., 1863. Obs. ix. p. 60.
262. *G. basalis*, Lea,§
Melania basalis, Lea, Philos. Proc. iv. p. 166. Philos. Trans., x. p. 59, t. 9, f. 33. Obs. iv. p. 59. Binney, Check List, No. 28. Brot, List, p. 32. Reeve, Monog. Melania, sp. 471.
Anculotus basalis, Lea, Reeve, Monog. Anculotus, t. 5, f. 40.
Megara basalis, Lea, Adams' Genera i. p. 306.
263. *G. Lewisii*, Lea.
Melania Lewisii, Lea, Proc. Acad. Nat. Sci. p. 118, 1861.
Goniobasis Lewisii, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 243, t. 35, f. 46, Mar., 1863. Obs. ix. p. 65.
264. *G. ellipsoides*, Lea.
Melania gracilior, Lea,|| Proc. Acad. Nat. Sci. 1861, p. 118.
Goniobasis ellipsoides, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 234, t. 34, f. 31, Mar., 1863. Obs. ix. p. 56.
265. *G. elliptica*, Lea.
Melania elliptica, Lea, Proc. Acad. Nat. Sci. p. 118, 1861.
Goniobasis elliptica, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 225, t. 34, f. 13, Mar., 1863. Obs. ix. p. 47.
266. *G. bullula*, Lea.
Melania bullula, Lea, Proc. Acad. Nat. Sci. p. 121, 1861.

* This is the young, and *glandaria* the adult shell of the same species.

† Differs from *G. virgulata* by its obtusely angled whorls and somewhat diamond-shaped aperture.

‡ Much like *G. ambusta* when young, but more inflated, and the aperture more obtusely rounded below.

§ Resembles *glandaria*, but is thinner, the outer lip is more expanded, and the aperture rather larger. It is closely allied also to *fusiformis*, Lea.

|| Preoccupied.

- Goniobasis bullula*, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 221, Mar., 1863. Obs. ix. p. 43, t. 34, f. 5.
267. *G. excavata*, Anthony.*
Melania excavata, Anthony, Ann. Lyc. N. Y., vi. p. 99, t. 2, f. 18, Mar., 1854. Binney, Check List, No. 102. Brot, List, p. 32. Reeve, Monog. *Melania*, sp. 385.
268. *G. purpurea*, Lea.
Melania purpurea, Lea, Proc. Acad. Nat. Sci. p. 120.
Goniobasis purpurea, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 225, t. 34, f. 12, Mar., 1863. Obs. ix. p. 47.
269. *G. quadrivittata*, Lea.
Melania quadrivittata, Lea, Proc. Acad. Nat. Sci. 1861, p. 119.
Goniobasis quadrivittata, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 226, Mar., 1863. Obs. ix. p. 48.
270. *G. propria*, Lea.
Melania propria, Lea, Proc. Acad. Nat. Sci., p. 118, 1861.
Goniobasis propria, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 229, t. 34, f. 21, Mar., 1863. Obs. ix. p. 52.
271. *G. negata*, Lea.
Goniobasis negata, Lea, Proc. Acad. Nat. Sci., p. 271, 1862. Jour. Acad. Nat. Sci., v. pt. 3, p. 337, t. 38, f. 200, Mar. 1863. Obs. ix. p. 159.
272. *G. impressa*, Lea.
Melania impressa, Lea, Philos. Proc. ii. p. 83, Oct. 1841. Philos. Trans., ix. p. 19. Obs. iv. p. 19. Wheatley, Cat. Shells U. S., p. 25. Jay, Cat. Shells, p. 274. Binney, Check List, No. 143. Brot, List, p. 32. Reeve, Monog. *Melania*, sp. 316, 349. Hanley, Conch. Miscel. *Melania*, t. 8, f. 69.
Megara impressa, Lea, Chenu, Manuel i. f. 2023, Adams' Genera i. p. 306.
Melania crebristriata, Lea,† Philos. Proc. iv. p. 166. Philos. Trans., x. p. 65, t. 9, f. 47. Obs. iv. p. 65. Binney, Check List, No. 75. Catlow, Conch. Nomencl., p. 186. Brot, List, p. 32.
Megara crebristriata, Lea, Adams' Genera i. p. 306.
273. *G. pergrata*, Lea.‡
Melania pergrata, Lea, Proc. Acad. Nat. Sci., p. 122, 1861.
Goniobasis pergrata, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 243, Mar., 1863. Obs. ix. p. 65.
274. *G. capillaris*, Lea.
Melania capillaris, Lea, Proc. Acad. Nat. Sci., p. 122, 1861.
Goniobasis capillaris, Lea, Jour. Acad. Nat. Sci. v. pt. 3, p. 236, t. 34, f. 34, Mar., 1863. Obs. ix. p. 58.

EURYCÆLON, Lea.

Eurycælon, Lea, Proc. Acad. Nat. Sci., p. 3, Jan., 1864.

1. *E. umbonata*, Lea.

Goniobasis umbonata, Lea, Proc. Acad. Nat. Sci., p. 3, 1864.

2. *E. Midas*, Lea.

Melania Midas, Lea, Proc. Acad. Nat. Sci., p. 119, 1861.

Goniobasis Midas, Lea, Jour. Acad. Nat. Sci., v. pt. 3, p. 233, t. 34, f. 28, Mar., 1863. Obs. ix. p. 55.

3. *E. gratiosa*, Lea.

Goniobasis gratiosa, Lea, Synonymy, Part 2, No. 2.

*Mr. Anthony's type specimen exhibits unmistakable evidence of diseased growth.

†The difference in the number of striae pointed out by Mr. Lea, is not a good distinctive character; they vary much in number on undoubted specimens of *impressa*. *G. crebristriata* is not full grown.

‡I fear this is only a variety of *impressa*.

- 3a. *E. lachryma*, Anthony.
Goniobasis lachryma, Anthony, Syn., Part 2, No. 2a.
4. *E. gibberosa*, Lea.
Goniobasis gibberosa, Lea, Syn., Part 2, No. 3.
5. *E. nubila*, Lea.
Goniobasis nubila, Lea, Syn., Part 2, No. 4.
6. *E. Anthonyi*, Budd.
Anculosa Anthonyi, Budd., Syn., Part 3, No. 1.
7. *E. crassa*, Haldeman.
Anculosa crassa, Hald., Syn., Part 3, No. 15.
Leptoxis crassa, Hald., Adams' Genera i. p. 307.
Anculosa pisum,* Hald., Syn., Part 3, No. 19.
Leptoxis pisum, Hald., Adams' Genera i. p. 307.
8. *E. turbinata*, Lea.
Anculosa turbinata, Lea, Syn., Part 3, No. 33.

MESESCHIZA, Lea.

- Meseschiza*, Lea, Proc. Acad. Nat. Sci., p. 2, Jan., 1864.
1. *M. Grosvenorii*, Lea.
Meseschiza Grosvenorii, Lea, Proc. Acad. Nat. Sci., p. 2, Jan. 1864.

SCHIZOSTOMA, Lea.

3. *S. ovoideum*, Shuttleworth.
Gyrotoma ovoidea, Shutt., Adams' Genera i. p. 305.
4. *S. excisum*, Lea.
Gyrotoma excisa, Lea, Adams' Genera i. p. 305.
7. *S. laciniatum*, Lea.
Gyrotoma lacinata, Lea, Adams' Genera i. p. 305.
10. *S. cylindraceum*, Mighels.
Gyrotoma cylindracea, Migh., Adams' Genera i. p. 305.
12. *S. curtum*, Mighels.
Gyrotoma curta, Migh., Adams' Genera i. p. 305.
15. *S. pagoda*, Lea.
Gyrotoma pagoda, Lea, Adams' Genera i. p. 305.
16. *S. pyramidatum*, Shuttleworth.
Gyrotoma pyramidatum, Shutt., Adams' Genera i. p. 305.
20. *S. babylonicum*, Lea.
Gyrotoma babylonicum, Lea, Adams' Genera i. p. 305.
Gyrotoma funiculata, Lea, Adams' Genera i. p. 305.
23. *S. constrictum*, Lea.
Gyrotoma constricta, Lea, Adams' Genera i. p. 305.
26. *S. incisum*, Lea.
Gyrotoma incisa, Lea, Adams' Genera i. p. 305.

ANCULOSA, Say.

1. *A. Anthonyi*, Budd.
= *Eurycælon*.
2. *A. plicata*, Conrad.
Anculotus plicatus, Conrad, Müller, Synopsis, p. 40, 1836.
Leptoxis plicata, Conrad, Adams' Genera i. p. 307.
5. *A. littorina*, Haldeman.
Melania pilula, Lea, Adams' Genera i. p. 307.

*Young shell.

6. *A. costata*, Anthony.
Nitocris costata, Lea, H. and A. Adams' Genera i. p. 308.
Nitocris occidentalis, Lea, Adams' Genera i. p. 308.
7. *A. rubiginosa*, Lea.
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8. *A. carinata*, Brug.*
A. dissimilis, Say, Synopsis, Part 3.
Bulmus carinatus, Brug., Ency. Meth., vers. i. p. 301, 1792.
Nitocris dissimilis, Say, Adams' Genera i. p. 308.
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Nitocris carinata, Lea, Adams' Genera i. p. 308.
Leptoxis variabilis, Lea, Adams' Genera i. p. 307.
Anculotus nigrescens, Conrad, Müller, Synopsis, p. 36, 1836.
Leptoxis nigrescens, Conrad, Adams' Genera i. p. 307.
Leptoxis trivittata, DeKay, Adams' Genera i. p. 307.
Anculotus monodontoïdes, Conrad, Müller, Synopsis, p. 41, 1836.
Nitocris monodontoïdes, Conrad, Adams' Genera i. p. 308.
Nitocris dentata, Couth., Adams' Genera i. p. 308.
9. *A. dilatata*, Conrad.
Nitocris dilatata, Conrad, Adams' Genera i. p. 308.
Leptoxis dilatatus, Conrad, Chenu, Manuel, i. f. 2043—5.
Nitocris Rogersii, Conrad, Adams' Genera i. p. 308.
Nitocris Kirtlandianus, Anthony, Adams' Genera i. p. 308.
Nitocris inflatus, Lea, Adams' Genera i. p. 308.
Melania inflata, Lea, Troschel, Archiv fur Naturgesch. ii. p. 226.
11. *A. melanoides*, Conrad.
Nitocris melanoides, Conrad, Adams' Genera i. p. 308.
Anculotus melanoides, Conrad, Müller, Synopsis, p. 42, 1836.
Leptoxis turgida, Hald., Adams' Genera i. p. 307.
Leptoxis viridis, Lea, Adams' Genera i. p. 308.
13. *A. subglobosa*, Say.
Leptoxis subglobosa, Say, Adams' Genera i. p. 307.
Leptoxis gibbosa, Lea, Adams' Genera i. p. 307.
Leptoxis globula, Lea, Adams' Genera i. p. 307.
Leptoxis tintinnabulum, Lea, Adams' Genera i. p. 307.
Leptoxis virgata, Lea, Adams' Genera i. p. 307.
14. *A. praerosa*, Say.
Anculosa praerosa, Say, Synonymy, Part 3.
Leptoxis praerosa, Say, Adams' Genera i. p. 307. Morch, Yoldi, Cat., p. 56.
Lithosia meritiformis, Desh., Adams' Genera i. p. 308.
Anculotus angulatus, Conrad, Müller, Synopsis, p. 40, 1836.
Leptoxis angulata, Conrad, Adams' Genera i. p. 307.
15. *A. crassa*, Haldeman.
= *Eurycelon*.
A. pisum, Hald., Synonymy, Part 3, No. 19.
Leptoxis pisum, Hald., Adams' Genera i. p. 307.
16. *A. taeniata*, Conrad.
Anculotus taeniatus, Conrad, Müller, Synopsis, p. 41, 1836.
Leptoxis taeniata, Conrad, Adams' Genera i. p. 307.

*Has 27 years priority over *dissimilis*.

17. *A. Troostiana*, Lea.
Leptoxis Troostiana, Lea, Adams' Genera i. p. 307.
25. *A. picta*, Conrad.
Anculosa picta, Conrad, Müller, Synopsis, p. 39, 1836.
Leptoxis picta, Conrad, Adams' Genera i. p. 307.
Leptoxis flammata, Conrad, Adams' Genera i. p. 307.
28. *A. squalida*, Lea.
Leptoxis squalida, Lea, Adams' Genera i. p. 307.
29. *A. patula*, Anthony.
 = *dilatata*, Conrad.?
30. *A. viridula*, Anthony.
 = *dilatata*, Conrad.?
33. *A. turbinata*, Lea.
 = *Eurycelon*.

Pursuant to the By-Laws, an election of members of the Standing Committees for 1865 was held, as follows:

ETHNOLOGY.

J. A. MEIGS,
 S. S. HALDEMAN,
 I. I. HAYES.

COMP. ANAT. AND GEN. ZOOLOGY.

JOSEPH LEIDY,
 J. M. CORSE,
 J. H. SLACK.

MAMMALOLOGY.

J. H. SLACK,
 J. L. LE CONTE,
 W. S. W. RUSCHENBERGER.

ORNITHOLOGY.

JOHN CASSIN,
 J. H. SLACK,
 B. A. HOOPES.

HERPETOLOGY & ICHTHYOLOGY.

E. D. COPE,
 R. BRIDGES,
 TH. NORRIS.

CONCHOLOGY.

T. A. CONRAD,
 W. G. BINNEY,
 G. W. TRYON, JR.

ENTOMOLOGY AND CRUSTACEA.

R. BRIDGES,
 E. T. CRESSON,
 J. F. KNIGHT.

BOTANY.

E. DURAND,
 JOSEPH CARSON,
 AUBREY H. SMITH.

GEOLOGY.

ISAAC LEA,
 CHARLES E. SMITH,
 J. P. LESLEY.

MINERALOGY.

WM. S. VAUX,
 J. C. TRAUTWINE,
 T. D. RAND.

PALÆONTOLOGY.

JOSEPH LEIDY,
 T. A. CONRAD,
 J. L. LE CONTE.

PHYSICS.

B. HOWARD RAND,
 WM. M. UHLER,
 R. E. ROGERS.

LIBRARY.

JOSEPH JEANES,
 JOSEPH LEIDY,
 JOHN CASSIN.

PROCEEDINGS.

JOSEPH LEIDY,
 WM. S. VAUX,
 JOHN CASSIN,
 THOMAS STEWARDSON,
 ROBERT BRIDGES.

[Jan.